



## State of Utah

 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

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## INSPECTION REPORT

 INSPECTION DATE & TIME: 9/26/91, 11:00am - 2:30pm  
9/27/91, 8:00am - 1:30pm

 Permittee and/or Operators Name: Genwal Coal Company (801) 687-9813

 Business Address: P.O. Box 1201, Huntington, UT 84528

 Mine Name: Crandall Canyon Mine Permit Number: ACT/015/032

 Type of Mining Activity: Underground ☒ Surface ☐ Other ☐

 County: Emery

 Company Official (s): Lannie Burnsides, Jay Marshall

 State Official(s): Priscilla Burton

 Partial: ☐ Complete: ☒ Date of Last Inspection: 8/9/91

 Weather Conditions: Sunshine, 70's

 Acreage: Permitted 2165.42 Disturbed 5.55 Regraded 0.5 Seeded 0.5 Bonded 5.6

 Enforcement Action: 91-37-3-1 and 91-37-4-1

## COMPLIANCE WITH PERMITS AND PERFORMANCE STANDARDS

	YES	NO	N/A	COMMENTS
1. PERMITS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. SIGNS AND MARKERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. TOPSOIL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HYDROLOGIC BALANCE:				
a. STREAM CHANNEL DIVERSIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. DIVERSIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. SEDIMENT PONDS AND IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. OTHER SEDIMENT CONTROL MEASURES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. SURFACE AND GROUNDWATER MONITORING	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. EFFLUENT LIMITATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. EXPLOSIVES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. DISPOSAL OF DEVELOPMENT WASTE AND SPOIL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. COAL PROCESSING WASTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. NONCOAL WASTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. SLIDES AND OTHER DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. CONTEMPORANEOUS RECLAMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. BACKFILLING AND GRADING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. REVEGETATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. SUBSIDENCE CONTROL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. CESSATION OF OPERATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. ROADS				
a. CONSTRUCTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. DRAINAGE CONTROLS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. SURFACING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. MAINTENANCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. OTHER TRANSPORTATION FACILITIES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. SUPPORT FACILITIES				
UTILITY INSTALLATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

# INSPECTION REPORT

PERMIT: ACT/015/032

Page 2 of 5

DATE: 9/30/91

(Comments are Numbered to Correspond with Topics Listed Above)

An Applicant Violator System check was conducted. The permit is issued to Genwal Coal Company. Genwal is also the operator as stated in Chapter 2 of the Mine plan and in agreement with the sign at the entrance to the haulroad. Genwal is a wholly owned subsidiary of Nevada Electric Investment Co. (NEICO).

On August 19, 1991 and application for approval of transfer and assignment of permit rights due to change of coal ownership was received by the Division. The application has undergone the public notification period and will receive Division approval after some problems with legal descriptions in this application are corrected. No problems in the legal description were noted in the newspaper notification, however.

As discussed with Mr. Marshall, when the approval for transfer and assignment of permit rights is received, Genwal Coal Co. will be required to revise Chapter 2 and Plate 2-1 to reflect the revision in coal ownership and to provide information on both NEICO and the Intermountain Power Association (IPA) who each own a 50% interest in the coal resource.

## 1. PERMITS

A review of the records indicated the following:

a. The Reclamation Agreement was signed 5/5/89.

b. A revised Mining and Reclamation Permit was issued on 4/22/91 (expires 5/13/93). The existing permit area is listed as 2165.42 acres. Six stipulations were placed on the permit and are summarized in Attachment A. Genwal has submitted a revised Chapter 14 to address these stipulations. This chapter is currently under review by the Division.

c. Several amendments have been submitted by the Crandall Canyon Mine site in the last year and are referred to in this report. Working backwards they are:

ACT 015/032/91E app'd 9/10/91	UD-3 Culvert upgrade/maintenance
/91D rec'd 8/2/91	Updates to Chapter 14, under review
/91C rec'd 6/21/91	Stipulation Response, further requests made and submitted in the form of a revised Chap 14
/91B app'd 6/28/91	Haulroad and surface expansion
/91A rec'd 2/2/91	Chapters 3 and 7, <u>not approved</u>
/90-2 app'd 4/22/91	NEICO State Leases, MRP Chap 14
/90J app'd 1/17/91	Truck loadout modification
/90I app'd 2/6/91	Transfer tower /crushing facilities
/90? app'd 10/12/90	Bulk oil storage
/90? app'd 10/12/90	Installation warehouse pad
/90F app'd 10/12/90	Removal power poles/Install concrete road barrier

Present work ongoing at the mine encompasses Amendments 90I, 90J, and 91B. (Water and waste sampling in accordance with stipulations on

## INSPECTION REPORT

PERMIT ACT\015\032

Page 3 of 5

DATE: 9/30/91

Amendment 91B are attached.) Installation of a 12 inch culvert as approved in Amendment 91E has been delayed until Mr. Marshall submits and receives approval for diversion of this culvert underground. (UD3 culvert has been repaired and functions as designed and approved in the MRP.) Amendment 91A (revised Chapters 3 and 7 have not been approved and should not be inserted into the approved MRP.

In compliance with approvals of Amendments 91B, 90I, and 90J, Mr. Marshall agreed that Genwal Coal Co will submit revised narratives and certified, as-built maps of the surface facilities by October 25, 1991.

d. In response to the Division letter of June 17 to all Coal Mine Operators, the Certificate of Liability Insurance was reissued by National Union Fire Insurance Co. on August 13, 1991 and the Reclamation Agreement (Exhibit D) was revised. The insured is Nevada Electric Investment Co., Genwal Coal Co., Castle Valley Resources. The mine specified is Crandall Canyon, ACT/015/032.

The policy number is GLCM 5419743 RA, effective 1/1/91. The expiration date is 1/1/92. The policy is underwritten by Price Insurance Agency, Roy Nikas, (801) 637-3351. The current policy excludes pollution events and subsidence related events.

Genwal Coal Co/Crandall Canyon Mine is in compliance with the Division letter of September 17, 1991, requesting the ACT number of Genwal Coal's Crandall Canyon Mine on the ACORD form.

e. Surety Bond #4689175, SAFECO Ins. Co. of America and countersigned by Merit Insurance Agency, Inc, was posted 5/10/90. The Bond expires on 5/13/93. The Bond amount is \$268,000.00 for 5.6 acres of disturbance.

f. A Notice of Intent was filed with the Bureau of Air Quality on 9/12/91. In this Notice, the annual production at Crandall Canyon is estimated at 1.5 MTons. Page one of this Notice incorrectly cites the legal description of three of the coal leases. As discussed with Mr. Marshall, a revised page will be included in the Notice when it is included in the updated MRP after the Notice is approved.

### 4.b. DIVERSIONS

The culvert carrying disturbed drainage from the fan requires maintenance.

### 4.c. SEDIMENT POND AND IMPOUNDMENTS

Annual certification of the sediment pond was conducted by Dan Guy on 3/8/91.

The sediment pond was last inspected 9/12/91. The piezometer was read on the same date. The reading was 13.5" of water at 33' below the surface. Precipitation records are kept weekly, the total recorded precipitation for August and September was 5.42 inches.

**4.d. OTHER SEDIMENT CONTROL MEASURES**

Directly below the haulroad, downstream from the asphalt barrier which defines the perimeter of the middle topsoil pile, maintenance is required to check the erosion of the road bank.

The silt fence located between the gravel area and the middle topsoil pile requires maintenance.

Water rushing over the asphalt road above the upper topsoil pile has formed a gully that has been checked with strawbales. We discussed the optimum height to place the strawbales. Finally, we decided to evaluate the performance of the bales as they are presently installed. No damage has occurred to the topsoil pile.

**4.e. SURFACE AND GROUNDWATER MONITORING**

The second quarter report was received on 8/13/91. The approved chapter 7 (page 7-36) outlines groundwater monitoring of springs monthly during the accessible month of the year (June through September). Surface Water monitoring is outlined on page 7-81 and 7-88. Surface water is monitored quarterly at two flumes in Crandall Creek. Additional monitoring of surface and groundwater was approved in April 1991 and is described in Chap 14: a flume installed in Blind Canyon is monitored quarterly (p14-27) and Springs SP 2-24 and SP 2-9 (p 14-22) are monitored according to the plan in section 7.1.6 which is to say monthly during the accessible times of the year (June thru September).

July and August sampling analysis sheets were available for review. All field data (Temperature, pH, EC and flow) was reviewed. Values reported for pH in the month of July ranged from 1.3 at the Blind Canyon Flume to 9.1 at DH-1. The extremely low values are unbelievable and indicate sampling error. (This was also noted in the February complete inspection of 1991.) Mr. Marshall stated that the pH meter had been calibrated with litmus paper at some point in the summer. However, he also indicated that standard calibrating solutions are not used. Notice of Violation 91-37-3-1 is being issued for failure to comply with the performance standard outlined in R614-301-723, sampling in accordance with the Standard Methods of the Examination of Water and Wastewater. Mr. Marshall had a new pH meter on order at the time of the inspection.

No samples were collected from SP 2-9 or SP 2-24. Therefore, Notice of Violation 91-37-4-1 is being issued for failure to comply with the terms and conditions of the approved permit (R614-301-100.150).

**6. DISPOSAL OF DEVELOPMENT WASTE AND SPOIL**

Genwal's recent submittals Amendments 91 C and D address this issue and are under review.

**INSPECTION REPORT**

PERMIT ACT\015\032

Page 5 of 5

DATE: 9/30/91

**11. CONTEMPORANEOUS RECLAMATION**

Mt. Nebo Scientific has been contracted to reclaim portions of the Forest Service haulroad, including the area along Huntington Creek where Federal N.O.V. 91-02-246-2 TV2 #2 of 2 was issued last year. Also, Crandall Canyon Mine is presently augmenting the seeding of the upper soil pile.

**13. REVEGETATION**

The approved Chap 3 states on p 3-39 that the Soil Conservation Service (SCS) will monitor the Mountain Shrub Grassland community reference area every five years during the field season before permit renewal. The next field evaluation must occur in the summer of 1992, preferably in July or August.

Genwal has not yet conducted this reference area monitoring. Mr. Marshall indicated that the SCS arrived at the Minesite on September 10 but was not able to conduct the survey due to rainfall. Genwal Coal Co. is responsible for making arrangements with the SCS to reschedule a time for the monitoring and data collection. This information must be included in the fourth quarter report.

**14. SUBSIDENCE**

No visual evidence of subsidence has been noted. Genwal is presently monitoring the left and right forks of Crandall Canyon and Blind Canyon to characterize their perennial nature. Data being collected is temp, depth, width, flow (ft/sec).

**17. TRANSPORTATION FACILITIES**

During the inspection, the primary crusher was out of commission due to a sandstone roll encountered in the mine. The secondary crusher was being used. The crusher belt drops the coal in a free fall of 75 feet. Coal dust from this operation was noted approximately 150 feet away at the sediment pond outslope.

**18. SUPPORT FACILITIES**

Genwal will be pursuing the following approvals:

1. to install a second fan house
2. to construct a warehouse/office building adjacent to the shop building

Copies of this report:

Mailed to: Brian Smith - OSM, Jay Marshall - Genwal Coal Co.

Given to: Daron Haddock and Joe Helfrich - DOGM

Inspectors Signature and Number: , #37

Date: 10/4/91